

AMENDED CLAIMS

[(received by the International Bureau on 15 August 2005 (15.08.05);
original claims 1-23 replaced by new claims 1-13 (2 pages)]

1. A method for producing a long glass fiber-reinforced thermoplastic resin composition, the method comprising the steps of:

selecting a quantity of long glass fiber having a length of 3.0 mm to 30 mm;

5 adding the selected quantity of long glass fiber to a first styrenic copolymer to form a master-batch, said first styrenic copolymer being a high flow copolymer; and

blending the master-batch with a second copolymer comprising a stiffer flowing amorphous styrenic copolymers.

2. The method in accordance with Claim 1 wherein said first styrenic
10 copolymer is selected from the group consisting of styrene-acrylonitrile (SAN), acrylonitrile-butadiene-styrene (ABS), and an alloy of ABS resins.

3. The method in accordance with Claim 1 or 2 wherein the second
copolymer is selected from the group consisting of acrylonitrile-butadiene-styrene (ABS),
styrene-maleic anhydride (SMA), acrylate styrene acrylonitrile (ASA), PC/ASA, PC/ABS,
15 and PC/SMA.

4. The method in accordance with any one of Claims 1 to 3 wherein the second copolymer blends with the first copolymer to form a homogeneous blend.

5. The method in accordance with any one of Claims 1 to 4 wherein the selected quantity of glass fibers is added to a high flow of the first copolymer.

20 6. The method in accordance with any one of Claims 1 to 5 wherein the selected quantity of glass fibers is added to the first copolymer in such an amount so that the resulting master-batch has a glass fiber concentration of between 40 percent and 75 percent.

7. The method in accordance with any one of Claims 1 to 6 wherein the blending ratio of the masterbatch with the second copolymer is between 10 and 40 percent about 10 percent and 40 percent.

8. The method in accordance with any one of Claims 1 to 7 wherein the
5 long glass fiber is glass roving.

9. The method in accordance with any one of Claims 1 to 8 wherein the master-batch is dry-blended with the second copolymer.

10. The method in accordance with any one of Claims 1 to 9 wherein the second copolymer is a neat mass acrylonitrile-butadiene-styrene (ABS) resin.

10 11. A glass fiber-reinforced thermoplastic resin composition comprising:
glass fiber having a length of 3.0 mm to 30 mm;
a first styrenic copolymer, comprising a high flow copolymer selected from the group consisting of styrene-acrylonitrile (SAN), acrylonitrile-butadiene-styrene (ABS), an alloy of ABS resins and a polycarbonate; and
15 a second styrenic copolymer having stiffer flow properties selected from the group consisting of acrylonitrile-butadiene-styrene (ABS), styrene-maleic anhydride (SMA), arylate styrene acrylonitrile (ASA), PC/ASA, PC/ABS, and PC/SMA.

12. The glass fiber-reinforced thermoplastic resin composition of Claim 11 wherein said glass fiber is glass roving.

20 13. The glass fiber-reinforced thermoplastic resin composition according to Claims 11 or 12 wherein said second styrenic copolymer is a neat mass acrylonitrile-butadiene-styrene (ABS) resin.